USSR

UDC 621.039.548.535:669.14

MARGULOVA, T. KH., GERASIMOV, V. V., and LIPANINA, A. A.

"Steel Hydrogenation as affected by Treatment with Trilon B"

Moscow, Atomnaya Energiya, Vol 29, No 3, Sep-Oct 70, pp 209-210

Abstract: The article describes results of a study of the effect of Trilon treatment on the hydrogenation of steel. Cylindrical specimens were saturated with hydrogen by the electrolytic method. Steels used for separating drums and steam lines (22K and 16GNM), as well as for reactor vessels were studied. Before hydrogenation some of the specimens were treated with a Trilon B solution with an initial concentration of 500 mg/kg with a pressure rise to 100 at (290° C) for 6 hours and exposure under this regime for 12 nours, and a group of 16GNM specimens were held in condensate for 500 hours at a pressure of 200 at (350° C), while some specimens were not exposed to any aqueous medium. The results indicate that periodic treatment with complexing agents improves the mechanical characteristics of hydrogenation—

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

USSR

MARGULOVA, T. KH., Atomnaya Energiya, Vol 29, No 3, Sep-Oct 70, pp 209-210

prone steels. Trilon treatment is advisable not only to increase the general corrosion resistance of pearlitic steels, but also to prevent intensive hydrogenation.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

USSR

WC 620.197.1

MARGULOVA, T. KH., Doctor of Technical Sciences, BUESUK, L. M., Candidate of Technical Sciences, BOGATYREVA, S. V., Engineer, LIFANINA, A. A., Engineer; Moscow, Power Engineering Institute

"The Corrosion of Structural Materials in Boron-Containing Solutions That are Used for Controlling the Pump Work of Nuclear Reactors"

Moscow, Teploenergetika, No 12, 1970, pp 14-17

Abstract: The corrosion resistance of steel IKhl8N9T, zirconium alloys with 1 and 2.5% niobium (the materials of fuel-element shells and cassettes), as well as carbon steel 20 and low-alloy vessel steel in boron-containing solutions is investigated. It is shown that the use of boric acid for "soft" control and the emergency stopping of nuclear reactors does not bring about corrosion of the structural materials. Five figures, 3 tables.

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UDC 629.78.017.2

USSR

SOKOLOV, N. I. and LIPATOV, A. V.

"Necessary Conditions of Linear System Continuity"

Tr. Mosk. Aviats. In-ta (Works of the Moscow Aviation Institute) No 240, 1972, pp 26-30 (from Referativnyy Zhurnel -- Raketostroyeniye, No 5, May 73, Abstract No 5.41.148)

Abstract: Two necessary conditions were obtained for the continuity of linear systems for which the characteristic polynomials

 $a_0z^n+a_1z^{n-1}+\cdots+a_n$ have positive coefficients a_1 . One of the conditions consists of the fact that

for a continuous system the sequence

 $\frac{a_2}{a_0}$, $\frac{a_3}{a_1}$, $\frac{a_4}{a_2}$, ..., $\frac{a_n}{a_{n-2}}$

should be diminishing. The second condition is reduced to the following relationship of the polynomial coefficients:

 $e_i^2 - c_i a_{i-2} e_{i+2} = 0, i = 2, 4, 6, ..., n-2,$

 $c_i = \frac{(n-i+2)(i+2)}{(n-i)^2}$ where 1/1

3 bibliographic references.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

USSR

LIPATOV. L. N., Physicotechnical Institute imeni A. F. Ioffe, Academy of Sciences of the USSR

"Bremsstrahlung in the Process of ete"-Backward Scattering at High Energies"

Moscow, Yadernaya Fizika, Vol 14, No 2, Aug 71, pp 395-407

Abstract: The cross section of e⁺e⁻-backward scattering with emission of an arbitrary number of V-quanta which are polarized in a plane is computed; an expression in gauge-invariant ford, derived in previous works by the author, is used for the amplitudes of scattering. The so-called double-logarithmic approximation is used to perform the calculations. It is shown that the cross section of each individual emission of V-quanta, the cross section being normalized to a Born cross section of elastic e⁺e⁻ scattering, decreases exponentially as energy increases but that, nonetheless, the cross section of the emission of an arbitrary number of V-quanta, also normalized to a Born cross section, approaches a constant value, approxi-0.78. This was postulated earlier by R. P. Feynman. The difficulties that would be encountered if an attempt were made to verify these results experimentally are discussed.

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- 91 -

1/2 020 UNCLASSIFIED PROCESSING DATE--160CT70
TITLE--ON THE VACUUM POLE IN QUANTUM ELECTRODYNAMICS -U+

AUTHOR-1031-FROLOV, G.V., GRIBOV, V.N., LIPATOV, L.N.

COUNTRY OF INFO--USSR

SOURCE--PHYS. LETTERS (NETHERLANDS), VOL. 318, NO.1, P.34-5 (5 JAN. 1970)

DATE PUBLISHED--05JAN70

SUBJECT AREAS--PHYSICS

TOPIC TAGS--QUANTUM ELECTRODYNAMICS, ASYMPTOTIC PROPERTY, SCATTERING AMPLITUDE, APPROXIMATION CALCULATION, GAMMA SCATTERING, ELECTRON SCATTERING

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/0074

STEP NO--NE/0000/TO/031/001/0034/0035

CIRC ACCESSION NO--APO102164

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

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UDC 621.373

USSR

KATAYEV, I.G., LIPATOV, N.F., MESHKOV, A.N., ROZHKOV, I.I.

"Generator Of Nanosecond Pulse Power On Nonlinear Transmission Lines With Ferrite"

Moscow, Pribory i Tekhnika Eksperimenta, No 5, Sept-Cct 1971, pp 126-130

Abstract: The paper describes in detail the generator circuit and the construction, operation, and characteristics of a generator of nanosecond pulses for supply of injection lasers and other electron-optical devices. The power of output pulses as high as 500 kw permits operation with an unmatched load. The duration of pulses of every polarity is from 2 to 30 nanosecond. The amplitude of the current with a low-resistance load is as high as 800 a; the voltage with a capacitive load is as much as 10 ky. The generator is convoltage with a principle of forming electromagnetic shock waves in a transstructed on the principle of forming electromagnetic shock waves in a transmission line with a ferrite. Received by editors 15 March 71. 7 ref. 3 fig. 1 tab. [Gor'kiy Polytechnical Institute]

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USSR

UDC: 621.317.4:621.318.134

FOMIN, A. Ye., LIPATOV, P. V., SHCHERBINA, P. L., PRISADA, V. M.

"Multidimensional Statistical Analysis of the Pulse Parameters of Ferrite Cores"

Elektron. tekhnika. Nauchno-tekhn. sb. Ferrit. tekhn. (Electronic Technology. Scientific and Technical Collection. Ferrite Technology), 1970, vyp. 3(25), pp 66-72 (from RZh-Radiotekhnika, No 5, May 71, Abstract No 5A249)

Translation: The authors consider some aspects of multidimensional studies of the pulse parameters of ferrite cores — amplitude of readout signals, time for magnetic reversal, and the rise time to maximum of the readout signals. A description is given of a measurement complex for these studies which consists of an AI-4096 analyzer, a U-700M automatic device for quality control of ferrite cores, and input matching devices. Measurement data are given as well as the results of computer processing of these data. It is emphasized that such studies are highly important for evaluating the quality of batches of ferrite cores, and for the development of controlled ferrite technology. Resumé.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

UDC 621.317.726(088.8)

USSR

KUZNETSOV, V. D., OSTKOUSHKO, A. I., LIPATOV, V. N., MITSUK, V. I.

"Meter for Measuring the Peak Values of Single Pulses"

USSR Author's Certificate No 250304, Filed 23 Mar 66, Published 13 Jan 70 (from RZh-Radiotekhnika, No 8, Aug 70, Abstract No 8A534 P)

Translation: Meters which measure the peak values of pulses containing a divider, a measuring converter with negative feedback consisting of a series included amplifier and a diode-capacitive storage element with an output circuit and a terminal recorder are known. In place of these meters with low reliability and insufficient accuracy, another meter is proposed which has the following distinguishing attributes: it is equipped with a "forbidden" circuit in the tenguishing attributes: it is equipped with a "forbidden" circuit in the feedback circuit executed from a thyratron which is connected by the anode circuit to the input and by the control grid, through a switch, with the output of the measuring converter. The output circuit of the latter is assembled from a phantastron with a Schmidt trigger connected to the screen grid.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

Conferences

UDC 006.3:541.64

USSR

LIPATOV, Yu. S.

"II Ukrainian Republican Conference on High Molecular Compounds"

Moscow, Vysokomolekulyarnyye Soyedineniya, Vol 13, No 5, May 71, pp 1220-1221

Abstract: The conference was held 1-4 December 1970 in Odessa. It was devoted to three main topics: kinetics and mechanism of the formation of high molecular compounds, physical chemistry of the polymers and modification and stabilization of polymer materials. Several papers were devoted to the use of peroxides as initiators of polymerization and production of to the use of peroxides as initiators of polymerization and production of homopolymers and block-copolymers in emulsion and in a mass [IVANCHEV, S. S., YURZHENKO, A. I., et al.]. A. I. YURZENKO discussed the mechanism, kinetics, and topochemistry of emulsion polymerization as well as the aspect of a rational control of the polymerization process by altering emulsifiers and rational control of the polymerization process by altering emulsifiers and their hydrophobic-hydrophilic balance. A series of papers by LIPATOVA, their hydrophobic-hydrophilic balance. A series of papers by LIPATOVA, their hydrophobic-hydrophilic balance. A series of papers by LIPATOVA, their hydrophobic-hydrophilic balance. A series of papers by LIPATOVA, their hydrophobic-hydrophilic balance. A series of papers by LIPATOVA, their hydrophobic-hydrophilic balance. A series of papers by LIPATOVA, their hydrophobic-hydrophilic balance. A series of papers by LIPATOVA, their hydrophobic-hydrophilic balance. A series of papers by LIPATOVA, their hydrophobic-hydrophilic balance. A series of papers by LIPATOVA, their hydrophobic-hydrophilic balance. A series of papers by LIPATOVA, their hydrophobic-hydrophilic balance. A series of papers by LIPATOVA, their hydrophobic-hydrophilic balance. A series of papers by LIPATOVA, their hydrophobic-hydrophilic balance. A series of papers by LIPATOVA, their hydrophobic-hydrophilic balance. A series of papers by LIPATOVA, their hydrophobic-hydrophobic-hydrophilic balance. A series of papers by LIPATOVA, their hydrophobic-hydrophobic-hydrophobic-hydrophobic-hydrophobic-hydrophobic-hydrophobic-hydrophobic-hydrophobic-hydrophobic-hydrophobic-hydrophobic-hydro

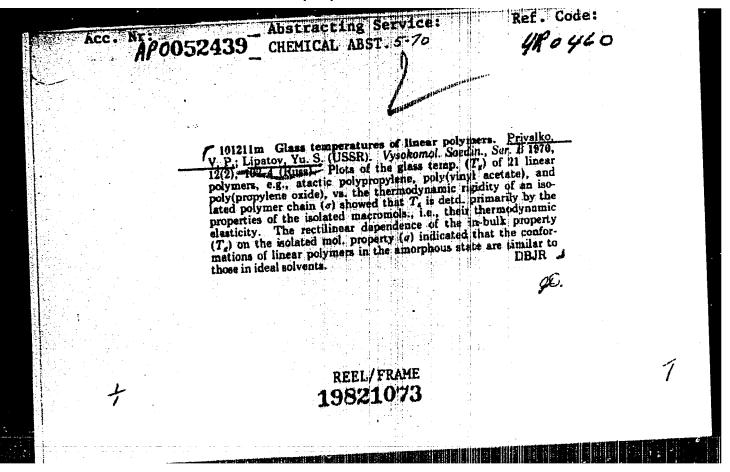
APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

LIPATOV, Yu. S., Vysokomolekulyarnyye Soyedineniya, Vol 13, No 5, May 71, pp 1220-1221

on fine details of the mechanism of emulsion polymerization and granular polymerization, while new types of polymers of the polymerthane type were discussed by GRITSENKO, T. M., GREKOV, A. P. and SPIRIN, Yu. L. The structural studies and the melting processes of crystalline polymers were studied by NOSOV, M. P., ANOKHIN, V. V., and YUDIN, A. V., while AR'YEV, A. M., and KERCH, Yu. Yu., devoted their reports to thermal treatment of the polymers with accompanying structural changes. KARAKCHI, A. M., KACHAN, A. A., et al. reported on the use of radiation and photochemistry in polymer crosslinking, while BLOKH, G. A., ONEL CHENKO, S. I., et al. discussed the modification and stabilization of resins and fiber glass materials. Yu. S. LIPATOV covered the problems of heterogeneous polymeric materials containing dispersive, fibrous, and other fillers, formation of polymers under heterogeneous conditions and their chemical reactions.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"



Acc. Nr: APO 52525 CHEMICAL ABST. 5-70

Ref. Code:

conditions on structure formation in linear polyurethane. Pavlov, V. I.: Linatov, Vineb. (Inst. Khim. Vysokomol. Soedin., Kiev. USSR). Vysokomol. Soedin., Ser. A 1970, II.(II, 89-94 (Russ). The size of polyurethane (I) spherulites increased with the temp. and time of I melt heating prior to crystn. High melt temps. decreased the crystn. rates. Heating I based on diethylene glycol and hexamethylene dissocyanate \(\leq 170^\circ \) falled to dissolve small fragments of I. Above 170° I melts contained only mol. aggregates. The spherulite growth rates from I melts heated below or above 170° were different.

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Acc. No. 1970052507 CHEMICAL ABST. 5-70 Ref. Code:

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Acc. Nr. A	0048843 Abstracting Service:	Ref. Code 5-70 UROV60
	phous polymers. Tsarev. P. K.; Baranov. V. (Inst. Khim. Vysokomol. Soedin. Kiev. U. Soedin., Ser. B 1970, 12(2), 115-17 Russ). A for studying the stratification of amorphous are described. Absorbance measurements of tacrylate) indicated that it had a complex sur of the surface layer was only very slightly le underlying mass.	Lipativ, 14, 35 SET). Visikomol. method and device phlymenic systems sch. poly(Me meth- riace layer. The d.
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UNCLASSIFIED PROCESSING DATE--18 SEP 70 TITLE--FORMATION OF RETICULAR POLYURETHANE BASED ON AN OLIGOMERIC MACRO

AUTHOR-(04)-NESTEROV, A.E., LIPATOVA, T.E., IVASHCHENKO, V.R., LIPATOV,

YU.S. COUNTRY OF INFO--USSR

SOURCE-VYSOKOMOL. SOEDIN., SER. B 1970, 12(2) 150-3

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY, MATERIALS

TOPIC TAGS--POLYURETHANE RESIN, OLIGOMER, ORGANIC ISOCYANATE, MOLECULAR WEIGHT. INTRINSIC VISCOSITY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/0252

STEP NO--UR/0460/70/012/002/0150/0153

CIRC ACCESSION NO--APO102302

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

PROCESSING DATE--18SEP70 UNCLASSIFIED. 2/2 CIRC ACCESSION NO--APO102302 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE POLYDISPERSITY, MOL. WT. DISTRIBUTION, INTRINSIC VISCOSITY, AND DIMENSIONS OF MACROMOLS. RESULTING FROM THE REACTION PRODUCTS OF A MACRODIISOCYANATE (1) (PREPD. FROM POLYPROPYLENE GLYCOL (MOL. WT. 2000) AND 4, 4,01PHENYLMETHANE DIISOCYANATE) AND ETC(CH SUB2 OH; SUB3 WERE STUDIED, A SUDDEN INCREASE IN THE HOL. WT. OF I AND IN THE M SUB2-M SUBZ RATIO WAS OBSD. BEYOND SIMILAR TO SOPERCENT CONVERSION. A PLOT OF INTRINSIC VISCOSITY. M SUBW-M SUBZ, AND R PRIME2-M SUBW VS. CONVERSION (WHERE (R PRIME2) PRIMEONE HALF IS THE MEAN SQUARE RADIUS OF INERTIA. H SUBW IS THE WT. AV. MOL. WT., AND M SUBZ IS THE Z AV. MOL. WT.) SUGGESTED THAT A COMPLETELY CROSSLINKED POLYURETHANE, CONSISTING OF DISCRETE HICROBLOCKS SPARSELY BOUND BY CHEM. BONDS, WAS FORMED DURING THE LAST STAGES OF HARDENING.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

UNCLASSIFIED PROCESSING DATE--CPOCITO

TITLE--STUDY OF SURFACE PHENOMENA IN POLYMERS PROPERTIES OF CONOMOLECULAR

OLIGOMER LAYERS -UAUTHOR-(C3)-FAYNERMAN, A.YE., LIPATOV, YU.S., MAYSTRUK, V.K.

COUNTRY OF . INFO--USSR

SOURCE--KULLGIDNYY ZHURNAL, 1970, VOL 32, NR 2, PP 282-287

DATE PUGLISHED ---- 70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS--MOLECULAR WEIGHT, POLYMER STRUCTURE, OLIGOMER, ETHYLENE GLYCOL, ADTPATE, ISOTHERM

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1992/1550

STEP NO--UR/0069/70/032/002/0282/0287

CIRC ACCESSION NO--APOLIES44

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--020CT70

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PROCESSING DATE--230CT70 TITLE--ADHESION OF POLYURETHANES AT LOW RATES OF EXPOLIATION -U-1/2 030 AUTHOR-(03)-LIPATOV, YU.S., KUKSIN, A.N., SERGEYEVA, L.M. COUNTRY OF INFO--USSR SOURCE--FIZ. KHIM. MEKH. MATER. 1970. 5(6), 688-91 DATE PUBLISHED-----70 TOPIC TAGS--ADHESION, POLYURETHANE RESINA COPOLYMERA FURANA ETHYLENE OXIDE, STEEL, BRASS, GLASS, PLASTIC COATING CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0369/70/005/006/0688/069L DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/0768 CIRC ACCESSION NU--AF0124438 UNCLASSIFIED

PROCESSING DATE-230CT70 ggerni dir UNCLASSIFIED ABSTRACT. THE WORK OF ADHESION OF POLYURETHANE COATINGS HAS MEASURED A COPOLYMER OF TETRAHY DROFURAN WITH CIRC ACCESSION NO--APO124438 25PERCENT ETHYLENE DXIDE AND AN ADDUCT OF TOLYLENE DIISOCYANATE WITH ABSTRACT/EXTRACT--(U) GP-0-TRIMETHYLPROPANE OF DIFFERENT NCO-OH RATIOS WERE USED FOR THE PREPN. OF THE POLYURETHANES. SINCE DELAMINATION OF THE FILM UNDER TENSION CONTINUED UNTIL THE ADHESION FORCES EQUALLED THE TENSION IN THE DELAMINATED FILM, THE REMAINING ADHESIVE FORCES CALCULATED PER UNIT WIDTH (1 CM) WERE IDENTIFIED AS THE "EQUILIBRIUM WORK OF ADHESION." THIS VALUES, BEING INDIPENDENT OF SECONDARY FACTORS, WAS USED IN STUDYING ADHESION. THE WORK OF ADHESION INCREASED WITH THE INCREASE IN THE CROSSLINK D. OF THE POLYMER AND DECREASED DEPENDING ON THE BASE IN THE ORDER: STEEL GREATER THAN BRASS GREATER THAN GURALUMIN GREATER THAN FACILITY: INST. KHIM. VYSOKOMOL. SOEDIN, KIEV. USSR. GLASS. MICE ASSIFIED IS

UNCLASSIFIED PROCESSING DATE--27NOV7O

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TITLE-SIZES OF MACROMOLECULES AND STRUCTURE OF THE NETWORK IN CROSSLINKED

POLYURETHANES -UAUTHOR-(02)-PRIVALKO, V.P., LIPATOV, YU.S.

COUNTRY OF INFO--USSR

SOURCE--VYSOKOMOL. SOEDIN., SER. B 1970, 12141, 268-72

DATE PUBLISHED-----70

SUBJECT AREAS--CHEMISTRY, MATERIALS

TOPIC TAGS--ELASTOMER, POLYURETHANE RESIN, TENSILE STRENGTH, ETHYLENE GLYCOL, ADIPATE, ORGANIC ISOCYANATE, FLEXIBILITY, POLYETHER RESIN, POLYESTER RESIN

CONTROL MARKING--ND RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/1013

STEP NO--UR/0460/70/012/004/0268/0272

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

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ECIRC ACCESSION NO--APO136440

UNCLASSIFIED PROCESSING DATE--27NOV7O

2/2 033 UNCLASSIFIED PROCESSING DATE--27NOV7O

CIRC ACCESSION NO--APO136440

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE TENSILE SVRENGTH DF

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UNCLASSIFIED PROCESSING DATE--04DEC70 1/2 019

TITLE--MOLECULAR MOTION IN POLYURETHANE SURFACE LAYERS -U-

AUTHOR-(02)-FABULYAK, F.G., LIPATOV, YU.S.

COUNTRY OF INFO--USSR

SOURCE--VYSOKOMOL. SOEDIN., SER. A 1970, 12(4), 738-52

DATE PUBLISHED----70

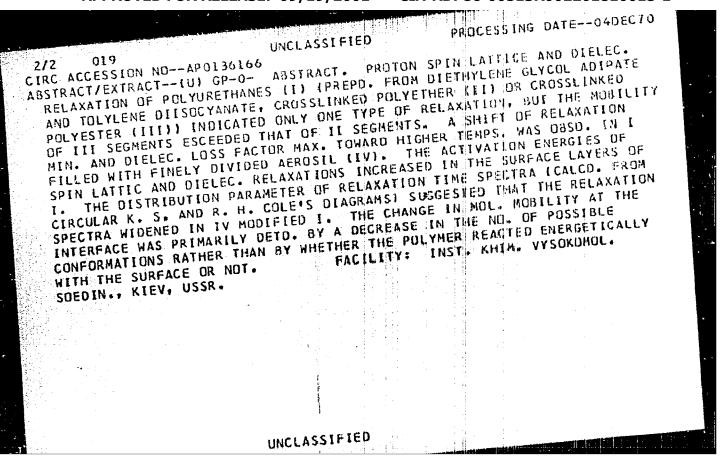
SUBJECT AREAS--CHEMISTRY, MATERIALS

TOPIC TAGS--PROTON, SPIN LATTICE RELAXATION, DIELECTRIC PROPERTY, POLYURETHANE RESIN, ETHYLENE GLYCOL, ADIPATE, POLYETHER RESIN, POLYESTER RESIN

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/0727 STEP NO--UR/0459/70/012/004/0738/0752

CIRC ACCESSION NO--APO136166 UNCLASSIFIED



UDC 543.422.4+541.571.9+577.

SHAGIDULLIN, R. R., LIPATOVA, I. P., NURETDINOV, I. A., and SAMARTSEVA, S. A., Institute of Organic and Physical Chemistry Imeni A. Ye. Arbuzov, Acad. Sc. USSR, Kazan', and Kazan' Chemical-Technological Institute Imeni S. M. Kirov

"Hydrogen Bonding with the Participation of P=S@ and P=Te Groups"

Moscow, Doklady Akademii Nauk SSSR, Vol 211, No 6, Aug 73,

Abstract: The electron donating ability of the group P=X (X=Se, Te) was studied in the compounds of the type $R_1R_2R_3P=X$ where R_1 , R_2 , R_3 = Me, Et, Bu, Ph, EtO, EtS, PhO, Me₂N, Et₂N, and Cl (for X = Se), and Me, Me2N, Et2N (for X = Te), by determining IR spectral changes due to the formation of hydrogen bonds with the phenolic OH group. It has been established that both the selleno- and tellurophosphoryl groups participate in hydrogen bonding as proton acceptors, the strength of the II-bond depending on the electronic effects of the substituents on the phosphorus atom. The electron donating ability of the P=X groups (X = 0, S, Se, Te) in identical 1/2

SHAGIDULLIN, R. R., et al., Doklady Akademii Nauk SSSR, Vol 211, No 6, Aug 73, pp 1363-1365

media changes considerably when oxygen is replaced by sulfur, but such a change is very small when sulfur is replaced by Se or Te.

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- 40 -

USSR

UDC 541.57:546.11:547.1'118

SHAGIDULLIN, R. R., LIPATOVA, I. P., VACHUGOVA, L. I., CHERKASOV, R. A., and KHAYRUTDINOVA, F. KH., Institute of Organic and Physical Chemistry Imeni A. Ye. Arbuzov, Acad. Sc. USSR, and Kazan State University Imeni V. I. Ul'yanov-Lenin

"Hydrogen Bonding in Dithio Acids of the Pentavalent Phosphorus"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 4, Apr 72, pp 847-851

Abstract: IR spectra of a series of liquid phosphinic, phosphonic and phosphoric dithio acids and their solutions in CCl₁ were studied in temperature range 253-293°K. In pure liquids and in concentrated CCl₁₄ solutions dimers were found to form via the hydrogen bonding. The SH group acted as the proton denor, the acceptor being the thions sulfur atom in the phosphinic acid, and the oxygen atom of the ether group in phosphonic and phosphoric acids. The hydrogen bonding between the SH group and thiophosphoryl sulfur in the phosphinic acid is stronger than the SH hydrogen bonding with the oxygen of the phosphonic and phosphoric acid derivatives, or of the dioxane. In dilute CCl₁₄ solutions the noncyclic dithiophosphonic and phosphoric acids exist in form of two rotational isomers; the cyclic and the phosphinic compounds exist in a single form. The stabilization of the isomers is due evidently to intramolecular H-bonding.

1/1

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

UDC 542.91:661.718.1

USSR

PUDOVIK, N., YELISEYENKOV, V. N., SERKINA, N. A., and LIPATOVA I. P. Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, Academy of Sciences USSR

"Reactions of Amidophosphites with Alkylmethylphosphonic and Thiophosphonic Acids"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 5, 1971, pp 1039-1044

Abstract: The action of alkylmethylphosphenic and alkylmethylthiophosphonic acids on bis(diethylamido)alkylphosphites and tris(diethylamido)phosphite was investigated. The reactions led to mixed anhydrides of mathylphosphonic (thiophosphonic) and amidophosphorous acids. The amount of diethylamine (80-95 percent) formed in these reactions corresponds to the amount of mixed anhydride (70-85 percent) formed, showing the lack of side reactions. The anhydride (70-85 percent) formed, showing the lack of side reactions. The diethylamine formed can react both with the anhydride formed, as well as form a salt with the starting acid, GH₃(HO)P(X)OH·HNEt₂, partially removing it from a salt with the reactions can occur both in an organic inert solvent, as the reaction. The reactions can occur both in an organic inert solvent, as well as in its absence, and the yield of reaction products is not affected by the order in which the starting reagents (acid to phosphite or vice versa) are 1/2

USSR

PUDOVIK, N., et al., Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 5, 1971, pp 1039-1044

added. To increase the yields of anhydrides, the reagents must be mixed in the cold and after removal of the solvent the reaction mixtures must be heated at 10-50 mm and 60-120° until diethylamine is no longer formed. The mixed anhydrides obtained are saponified with water, forming the diethylammonium salt of phosphorous acid; they add sulfur with evolution of heat, forming pyrophosphonatothiophosphates.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

UDC 543.422.4:661.718.1

USSR

SHAGIULLIN, R. R. and LIPATOVA, I. P. Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, Academy of Sciences USSR

"Infrared Spectra and Structure of Certain Organo-thiophoguphorus Compounds"

Moscow, Izvestiya Akademii Nauk SSPR, Seriya Khimicheskaya, No. 5, 1971, pp 1024-1027

Abstract: Identification of bands associated with P-S vibrations and quantitative data on the intensities of these bands were obtained for several new thio-organophosphorus compounds of the type:

X = 0, Se, S $R' = C_2H_5$, i- and n- C_3H_7 , i and n- C_hH_9 $R'' = C_2H_5$, n- C_3H_7

1/2

USSR

SHAGINULLIN, R. R. and LIPATOVA, I. P., Izvestiya Akademii Nauk SSER, Seriya Khimicheskaya, No 5, 1971, pp 1024-1027

Wave numbers of band maxima assigned to the vibrations of P-S, F=S, and P=Se bonds are tabulated, along with integral intensities (Ap.g) of the doublet P-S bands. It was found that the frequency and integral intensity of vibrations of the P-S bond are sensitive to substituents at the phosphorus atom: for compounds of the type given above, with alkyl radical instead of phenyl, hup_S = 510-540 cm⁻¹. Introduction of an aryl radical increases this frequency to 557-578 cm⁻¹. Several rotational isomers exist among the compounds studied. Spectra of certain compounds recorded in the temperature range from +30 to -130° and in solvents of different polarity revealed the existence of rotational isomers. In solvents of different polarity revealed the existence of rotational isomers. The energy change delta-E of rotational isomers were calculated from measurements of infrared spectra at different temperatures. This infrared spectra were recorded on the UR-10 double beams spectrometer in the 400-4000 cm⁻¹ range.

2/2

UDC: 547.241+661.725

USSR

GRISHINA, O. N., KOSOVA, L. M., LIPATOVA, I. P., and SHAGIDULLIN, R. R., Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, Kazan', Academy of Sciences USSR

*Alkylthiophosphine Sulfides. 9. Synthesis of Pentaerythrityl 0,0,0,0-Tetrakis (Alkyldithiophosphonates) and Their Derivatives"

Leningrad, Zhurnal Obshchey Khimii, Vol 40, No 1, Jan 70, pp 66-69

Abstract: A series of dithiopnosphonate derivatives, previously unknown, were synthesized in the pursuit of investigation of alkylthiophosphine sulfides (I). Four partial esters, pentaerythrityl 0,0,0,0-tetrakis(alkyldithiophosphonates) (II), were prepared in 100% yields by mixing I with pentaerythritol in anhydrous dioxane at 900. II were clear viscous products. Dropping triethylamine slowly into a mixture of I and pentagrythritol in dioxane at room temperature, then heating the mixture to 70° gave corresponding quaternary triethylammonium salts of II (III) (yields 92-97%), clear viscous substances which crystallized on standing. Adding slowly ethyl icdide or ethyl chloroacetate to III in dioxane at 70-80° gave after three hours 65-39% yields of pentaerythrityl 0,0,0,0-tetrakis (S-dialkyldithiophosphonates), extremely viscous substances which crystallized on standing. Similarly III in dioxane 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

USSR

GRISHINA, O. N., et al. Zhurnal Obshchey Khimii, Vol 40, No 1, Jan 70, pp 66-69 solution reacted with aqueous iodine at room temperature to give 78.8-94.3% yields of disulfides

C[(CH2OP(S)R-S-)2]2

where R is butyl, cyclohexyl, or CoH13. The disulfides IV were crystalline products, indentified by their melting points. Shaking II, where alkyl is butyl or cyclohexyl, with aqueous nickel sulfate in equimolar amounts gave 100% yields of corresponding nickel salts, gray-greenish powders melting at 145-147° and 230-33°, respectively.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

UNCLASSIFIED PROCESSING DATE--300CT70

1/2 024

TITLE--SULFIDES OF ALKYLTHIONOPHUSPHINES. IX. SYNTHESIS OF

PENTAERYTHRITOL, 0, 0, 0, TETRAKIS, ALKYLDITHIOPHOSPHUNATES. AND THEIR

AUTHOR—(04)-GRISHINA, 0.N., KOSOVA, L.M., LIPATOVA, I.P., SHAGIDULLIN,

SOURCE-ZH. OBSHCH. KHIM. 1970, 40(1), 66-9

DATE PUBLISHED----70

COUNTRY OF INFO--USSR

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS—CHEMICAL SYNTHESIS, HETEROCYCLIC OXYGEN COMPOUND, IR SPECTRUM, ORGANONICKEL COMPOUND, PHOSPHATE ESTER, HETEROCYCLIC SULFUR COMPOUND, HETEROCYCLIC PHOSPHOURS COMPOUND, THIOL

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1992/1739

STEP NO--UR/0079/70/040/001/0066/0069

CIRC ACCESSION NO--APOL12727

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

2/2 024 UNCLASSIFIED PROCESSING DATE--300CT70
CIRC ACCESSION NO--APO112727
ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. HEATING 5 G (MEETCHPS SUB2) SUB2
MITH 2.24 G C(CH SUB2 0H) SUB4 IN ORY DIOXANE 1 HR AT 90DEGREES GAVE
100PERCENT VISCOUS C(CH SUB2 UP(S)-(SHIR) SUB4 (I) (R EQUALS MEETCH), N
PRIMEZO SUBD 1.5630. SIMILARLY WERE PREPD. THE ANALOGS WITH: SHOWN ON
MICROFICHE. IR SPECTRA ARE REPORTED. FACILITY: INST. ORG.
FIZ. KHIN. IM. ARBUZOVA, KAZAN, JSSR.

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--300CT70 TITLE-PROPERTIES OF PYRIDINECARBOXYLIC ACIDS HAVING CARBUXYL AND CARBONYL 1/2 022

AUTHOR-(04)-YURKINA, L.P., RUSYANOVA, N.D., LIPATOVA, L.F., KONDRATOV,

COUNTRY OF INFO-USSR

SOURCE-KHIM. GETEROTSIKL. SOEDIN. 1970, (3), 390-3

DATE PUBLISHED 70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS-PYRIDINE, CARBOXYLIC ACID, TITRATION, MOLECULAR STRUCTURE, IR SPECTRUM, UV SPECTRUM, CARBOXYL RADICAL, CARBONYL RADICAL

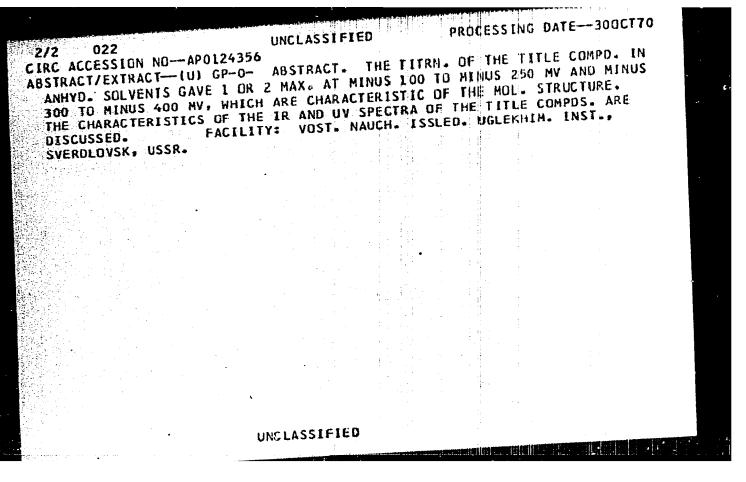
CONTROL MARKING-NO RESTRICTIONS

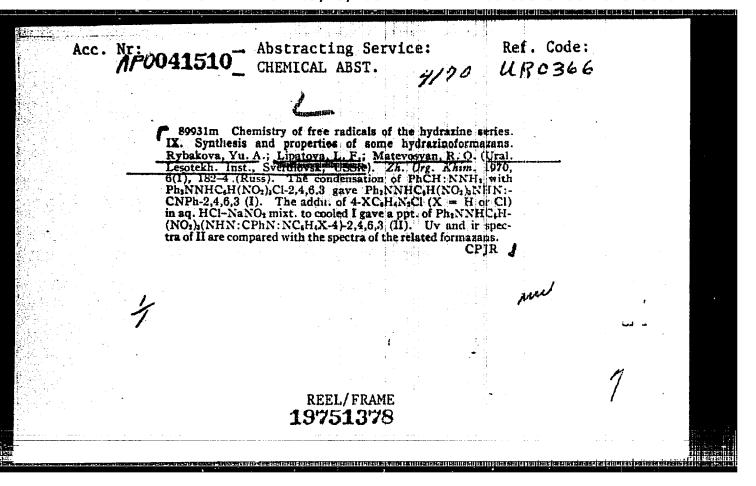
DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME-2000/0684

STEP NO--UR/0409/70/000/003/0390/0393

CIRC ACCESSION NO--APO124356 UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"





upd 577.1:615.7/9

LIPATOVA. T. E., and LOOS, S. H.

"The Effect of the Structure of Reticular Polyurethans on Their Resolution in an Organism"

Sintez i fiz.-khimiya polomerov. Resp. mezhved. sb (Synthesis and Physical Chemistry of Polymers: Republic Inter-Agency Collection of Works), 1973. Vyp 11, pp 95-98 (from Biologicheskaya Khimiya, No 15, Aug 73, Abstract No 15F2069)

Translation: The authors study the rate of destruction and resolution of a polymer in the organisms of rabbits using specimens obtained from various glycol components and various binders. The polyurethans of various structure resolved in the organism at various rates. The destruction, resolution of the polymer, was characterized by the value of the tangent of the angle of inclination to the axis of the abscissas of the straight line set up within the coordinates: suture density-implantation time. The highest value tga=0.188 corresponds to the LTM-F type polyurethan which was obtained on the basis of polytetramethyleneglycol. It is shown that the chemical composition, nature of the glycol component and of the binder, along with the wettability of the polymer surface and other factors affect the rate of polymer resolution.

- 67 -

Polymers and Polymerization

USSR

UDG 541.64:678.664

LIPATOVA, T. E., LOOS, S. M., and MOMBUZHAY, M. M., Institute of the Chemistry of High-Molecular Compounds, Academy of Sciences of the Ukrainian SSR

"Interaction of Polyester Urethanes With Physiologically Active Media"

Moscow, Vysokomolekulyarnyye Soyedineniya, Vol 12, Seriea A, No 9, Sep 70, pp 2,051-2,056

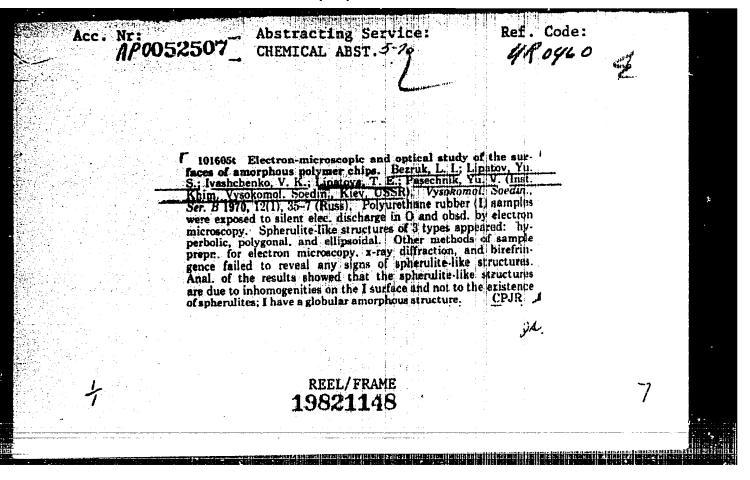
Abstract: Polyester urethane film nets with and without a filler were studied to determine the feasibility of using these materials in gastroenteritic implants. The films were based on polydiethylene glycol adipinate, toluylene diisocyanate, hemamethylene diisocyanate or diphenylmethane diisocyanate. The disocyanate, hemamethylene diisocyanate or diphenylmethane diisocyanate. The cross linking agent was trimethylolpropane, and the filler was ordinary sugar or starch in quantities of 20% by weight. It was found that after subcutance implantation of polyester urethane, as well as after standing in gastric juice for three months, destruction of the material begins, the mechanism of destruction being the same in both instances: dissociation of both the urethane group and the ester bonds. Pepsin is absorbed by the surface of the implant, resulting in a loss of activity of the enzyme splution. At the same implant, resulting in a loss of activity of the enzyme splution. At the same time, it is shown that pepsin can be desorbed from the polyester urethane

USSR

LIPATOVA. T. E., et al, Vysokomolekulyarnyye Soyedineniya, Vol 12, Series A, No 9, Sep 70, pp 2,051-2,056

surface under certain conditions. Specimens are more rapidly "dissolved" in physiologically active media if sugar is introduced as a filler in the implant.

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87 5.83	662 CHEMICAL	ABST. 5 70	UROC	: 179	
	96041z Polarographi Shapoval, G. S.; Lipato L. S.; Morozov, M.—A. mol. Soedin., Kiev. US 25–8 (Russ). Polarogr (NCO), with n. = 4, 6 showed a relation to the the mutual inductive eff increased. These poten reactivity of the dissocy formation and hence r following half-wave pot 1.93; 5, 2.12; 8, 2.18; The measurements were	c study of aliphatic ova, T. E.; Zhabenko, V. Tagutin, M. A. (Inst. SR). Zh. Obshch. Khin aphic data were report, 7, 8, 9, 10. The halfabove structure by gradulect of the NCO groups attial values were indicative anates in such reactions a represent useful industriational industriation were reported (#7, 2.23; 8, 2.235; 9, 2.24; made relative to the Hg NI electrode at 25°. G. h.	diisocyanates. A.; Sheinina, Khim. Vysoko- n. 1970, 40(1), ed for (CH ₁), wave potential ial extinction of is the value of n e of the overall as polyure thane al value. 7 V given): 4, ; and 10, 2.25. anode by using		
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UNCLASSIFIED 1/2 PROCESSING DATE--18SEP70 015 TITLE--FORMATION OF RETICULAR POLYURETHANE BASED ON AN OLIGOMERIC MACRO DIISOCYANATE -U-AUTHOR-(04)-NESTEROV, A.E., LIPATOVA, T.E., IVASHCHENKO, V.R., LIPATOV,

YU.S. COUNTRY OF INFO--USSR

SOURCE-VYSOKOMOL. SOEDIN., SER. B 1970, 12(2) 150-3

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY, MATERIALS

TOPIC TAGS--POLYURETHANE RESIN. BLIGOMER. BRGANIC ISOCYANATE, MOLECULAR WEIGHT, INTRINSIC VISCOSITY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/0252

STEP NO--UR/0460/70/012/002/0150/0153

CIRC ACCESSION NO--APO102302

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

PROCESSING DATE--18SEP70 UNCLASSIFIED 2/2 015 CIRC ACCESSION NO--AP0102302 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE POLYDISPERSITY, MOL. WT. DISTRIBUTION, INTRINSIC VISCOSITY, AND DIMENSIONS OF MACROMOLS. RESULTING FROM THE REACTION PRODUCTS OF A MACRODIISUCYANATE (1) (PREPD. FROM POLYPROPYLENE GLYCOL (MOL. WT. 2000) AND 4. 4, DIPHENYLMETHANE DIISOCYANATE) AND ETCICH SUB2 DH) SUB3 WERE STUDIED. A SUDDEN INCREASE IN THE MOL. WT. OF I AND IN THE M SUB2-M SUBZ RATIO WAS OBSD. BEYOND SIMILAR TO SOPERCENT CONVERSION. A PLOT OF INTRINSIC VISCOSITY, M SUBW-M SUBZ, AND R PRIMEZ-M SUBW VS. CONVERSION (WHERE (R PRIMEZ) PRIMEONE HALF IS THE MEAN SQUARE RADIUS OF INERTIA. M SUBW IS THE WT. AV. MOL. WT., AND M SUBZ IS THE Z AV. MOL. WT.) SUGGESTED THAT A COMPLETELY CROSSLINKED POLYURETHANE, CONSISTING OF DISCRETE MICROBLOCKS SPARSELY BOUND BY CHEM. BONDS, WAS FORMED DURING THE LAST STAGES OF HARDENING.

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE-160CT70

1/2 022

TITLE--MECHANISM OF URETHANE FORMATION THROUGH A COMPLEX OF CATALYST AND

REAGENTS -UAUTHOR-(02)-LIPATOVA, T.E., NIZELSKIY, YU.N.

COUNTRY OF INFO--USSR

SOURCE--DOKL. AKAD. NAUK SSSR 1970, 190(4), 880-3

DATE PUBLISHED-----70

SUBJECT AREAS-CHEMISTRY, MATERIALS

TOPIC TAGS--UV SPECTRUM, POLYURETHANE RESIN, COMPLEX COMPOUND, COPPER COMPLEX, METHANOL, CARBAMATE, CHEMICAL REACTION MECHANISM, KINETIC EQUATION, CALCULATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1992/2010

STEP NO--UR/0020/70/190/004/0880/0883

CIRC ACCESSION NO--ATO112965

UNCLASSIFIED

PROCESSING DATE--16UCT70 UNCLASSIFIED 2/2 CIRC ACCESSION NO--ATO112965 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE EFFECTS OF CU BIS(ET ACETDACETATE) (1) ON THE REACTION OF PHNCO WITH MEDH IN CCL SU84 WERE STUDIED BY DILATOMETRY AND SPECTROPHOTOMETRY. UV SPECTRA AT 270-310 M MU SUGGESTED THAT A TERNARY PHNCO-MECH-I SYSTEM MAY FAVE FORMED A COMPLEX IN WHICH PHNCO WAS COORDINATED TO CU PRIME2POSITIVE AND MECH TO THE CHELATE RING. A KINETIC EQUATION, WHICH ACCOUNTED FOR THE FORMATION OF THE TERNARY COMPLEX, WAS DERIVED. THE REACTION CONST. OF URETHANE FORMATION WAS CALCO. FROM THE EQUATION. AN ALTERNATIVE REACTION MECHANISM, INVOLVING A BINARY COMPLEX (WHENEVER AN EXCESS OF ONE OF THE FACILITY: INST. KHIM. REAGENTS WAS PRESENTI, WAS ALSO PROPOSED. VYSOKOMOL, SOEDIN., KIEV, USSR. A PROPERTY OF A

PROCESSING DATE-300CT7 UNCLASSIFIED TITLE-MECHANISM OF POLYURETHANE SYNTHESIS IN THE PRESENCE OF DIBUTYLTIN 1/2 015

AUTHOR-104)-LIPATOVA. T.E., BAKALO, L.A., SIROTINSKAVA, A.L., LOPATINA,

V.S. CCUNTRY OF INFO-USSR

SOURCE-VYSOKOHOL. SOEDIN., SER. A 1970, 12(4), 911-Lo

DATE PUBLISHED -----70

SUBJECT AREAS-MATERIALS. CHEMISTRY

TOPIC TAGS-PCLYURETHANE RESIN. POLYCONDENSATION, ORGANO'TIN COMPOUND. GLYCOL. ISOCYANATE. COMPLEX COMPOUND. ORGANIC SYNTHESIS

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME--2000/0676

STEP NO-UR/0459/70/012/004/0911/0916

CIRC ACCESSION NO--APO124348

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

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2/2 015
CIRC ACCESSIGN NO--APO124348
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE POLYCONDENSATION OF OCNICH
SUB21SUB6 NCO WITH HO(CH SUB2 CH SUB2 DISUB2 H IN THE PRESENCE OF BU
SUB21SUB6 NCO WITH HO(CH SUB2 CH SUB2 DISUB2 H IN THE PRESENCE OF BU
SUB2 SN DILAURATE (I) PROCEEDS AT A CONST. RATE LESS THAN OR EQUAL TO
TOPERCENT CCNVERSION, I.E., IT IS INDEPENDENT OF THE MONOMER CONCN. NO
TOPERCENT CCNVERSION, I.E., IT IS INDEPENDENT OF THE MONOMER CONCN. NO
SIDE PRODUCTS ARE PRODUCED AND POLYURETHANES EITHER HAVE NO EFFECT OR
RETARD THE REACTION. THE REACTION RATE INCREASES WITH I CONCN. A
RETARD THE REACTION HE FROM THE FORMATION OF A GLYCOL
DIISOCYANATE I COMPLEX. FACILITY: INST. KHIM. VYSOKONOL.
SDEDIN., KIEV, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

UDC 543.544.084.8

USSR

SOKOLIN, G. F., LULOVA, N. I., LIPAVSKIY, V. N., MERKULOV, V. D.

"Selection of Evaporator Temperature During Dosing of Liquid Samples in an Industrial Chromatograph"

Avtomatiz, i Kontrol'noizmerit, Pribory, Nauch, -Tekhn, Sb. [Automation and Testing and Measurement Devices. Scientific-Technical Collection], 1972, No 12, pp 22-24 (Translated from Referativnyy Zhurnal Metrologiya i Izmeritel naya Tekhnika, No 12, 1972, Abstract No 12.32.1025, by V. S. K.).

Translation: The most commonly used liquid sample dosing devices in industrial chromatographs are those in which the specimen is evaporated in a stream of carrier gas fed into the column, and the beginning of evaporation coincides with the beginning of analysis. Results are presented from experimental studies of the influence of evaporator temperature on the effectiveness of separation and the height of peaks of difficult-to-separate mixtures with boiling points of 135 to 145° C. It is demonstrated that the selection of the optimal evaporator temperature allows the effectiveness of the column to be increased significantly; the evaporator temperature should be 1.5-2 times the mean boiling point of the components of the mixture; if the optimal evaporator temperature causes thermal destruction of the specimen, dosing

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USSR

Sokolin, G. F., Lulova, N. I., Lipavskiy, V. N., Merkulov, V. D., Avtomatiz. i Kontrol'noizmerit. Pribory. Nauch.-Tekhn. Sb., No 12, pp 22-24.

devices with preliminary evaporation of the specimen should be used; the accuracy of maintenance of the optimal evaporator temperature should be 0.5 to 1°C. 2 figures, 5 biblio. refs.

2/2

- 133 -

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

UDC 616.981.455-036,21(571.62)

USSR

BUSOYEDOVA, N. H., ANTIP'YEVA, O. A., LIPAYEV, V. M., KOZŁOVSKAYA, O. L., CHERNYKH, P. A., FEOKISTOV, A. Z., CRIGOROV, V. I., CHIPANIN, V. L., and KHAMAGANOV, S. A., Khabarovsk Antiplague Station

"Characteristics of Natural Foci of Tularemia in Khabarovskiy Kray"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 4, Apr 71, pp 26-31

Abstract: A study conducted in the southern part of Khatarovskiy Kray indicated that natural foci of tularemia in forested and agricultural areas are different from those found in other parts of the USSE, because Arvicola terrestris and the common vole (Microtus arvalis) are absent, and hares and house mice are not numerous. Muskrats were found at only one focus. In forested regions the principal host is the large-toothed redbacked vole (Clethrionemys rufocanus), while the long-time reservoir and vectors are I. persulcatus and H. concinna ticks. Forest and field mice and the Siberian chipmunk were also infected. In agricultural regions the hosts are the northern redbacked and Far-Eastern vole (Clethrionomys rutilis; Microtus fortis), while D. silvarum and H. concinna ticks constitute the reservoir and vectors. A low epizootic level and still lower epidemic activity were typical for i/2 - 36---

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

BUSOYEDOVA, N. M., et al., Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, Vol 48, No 4, Apr 71, pp 26-31

tularemia foci in Khabarovskiy Kray in the vicinity of the Amur River. The low rate of infection of human beings was due to the absence or small numbers of classical hosts (Arvicola terrestris, common vole, and hares) with which human beings may come into contact, the absence of active and widespread human beings may come into contact, the absence of active and widespread epizootics, and the predominance in agricultural areas of a rodent of the epizootics, and the predominance in agricultural areas of infection was five were of the bubonic form. In one instance the source of infection was water containing P. tularensis, and in another instance the infection was water containing P. tularensis, and in another instance the infection was parently due to introduction of the agent into an eye by hamis soiled with apparently due to introduction of the agent into an eye by hamis soiled with rodent feces. Testing of the population at known tularensis foci with tularin resulted in a positive allergic reaction in 1.2-2.5% of cases. The aggluereaction in 3.3-9.7% of cases. The data reported were obtained in an investigation conducted during 1956-1968.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

unc: 8.74

USSR -

LIPAYEW V V. and KOLIN, K. K.

"The Makeup of Operations and the Statistics of Their Use in Digital Computer Control Programs"

Moscow, V sb. Tsifr. vychisl. tekhnika i programmir. (Digital Computer Techniques and Programming-collection of works) "Sov. Radio," No 7, 1972, pp 120-126 (from RZh-Matematika, No 8, 1972, Abstract No 8v630)

Translation: Results are given of the statistical analysis of the makeup of operations in the programs of four digital computers used in complex systems of automated object control indicating used in complex branching of the programs and the preponderance of the complex branching of the programs and the preponderance of logic operations over arithmetic. Recommendations are made for logic operations over arithmetic. Recommendations are made for logic operations over arithmetic computers of this type the use of special commands in digital computers of this type constants. Conclusions with part of a word and operations with for performing operations with part of a word and operations with constants. Conclusions are drawn concerning the advantages of using commands in controlling digital computer systems designed using commands in controlling digital computer systems designed specially for solving information-logic problems. Authors' absence that the preparation is a specially for solving information-logic problems.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

UDC: 8.74

LIPAYEV V V, KOLIN, K. K.

"Concerning the Make-up of Operations and the Statistics of Using Them in Digital Control Computer Programs"

V sb. Tsifr. vychisl. tekhnika i programmir. (Digital Computer Technology and Programming -collection of works), vyp. 7, Moscow, "Sov. radio", 1972, pp 120-126 (from RZh-Kibernetika, No 8, Aug 72, Abstract No 8V630)

Translation: The paper gives the results of statistical analysis of the make-up of operations in the programs of four computers used in complex systems of automated control of objects. These results show the appreciable branchedness of the programs and the predominance of logic operations over arithmetic operations. Recommendations are made on using a special class of commands in digital computers to execute operations with part of a word and operations with constants. It is concluded that systems of commands specifically directed toward solving. information-logic problems should be used in digital control computers. Authors' abstract.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

UDC 681.142.1

LIPAYEV, V. V., KOLIN, K: K., SEREBROVSKIY, L. A.

"Control Computer Software"

Matematicheskoye Obespecheniye Upravlyayushchikh TsVM, Moscow, Sovetskaya Radio Press, 1972, 528 pp

Translation of Annotation: This monograph analyzes the main problems involved in the development of general software for digital computers used in automated control systems in real-time applications. The software for technological processes of planning algorithms and programs of control computers (programming, production of documentation) is studied, as well as the software for the organization of the computer process as the computer functions in the control system.

Considerable attention is given to problems and the structure of software systems for control computers, as well as methods and criteria for evaluating their effectiveness. A typical structure of an operational system, its functioning modes, and the algorithms of the main programs organizing the computational process are studied. Queueing theory methods are used to study various computation disciplines with unlimited waiting of requests in line or with losses of requests (messages) in the limited buffer memory of the computer.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

Lipayev, V. V., Kolin, K. K., Serebrovskiy, L. A., Matematicheskoye Obespecheniye Upravlyayushchikh TaVM, Moscow, Sovetskoye Radio Press, 1972, 528 pp.

Problems and methods of automation of the process of programming for control computers, programming languages, and translation and testing algorithms for interrelated large-volume programs are studied. A typical structure of a system for automation of programming and output of technical documentation on algorithms and programs is presented. The basic problems of automation of debugging of algorithms and programs for control computers and the structure and technological plan for an automated debugging system are analyzed.

The book is designed principally for scientific workers and engineers in the area of investigation and planning of the software of digital control computers. It can be used as a software course text for teachers and students in the higher levels of colleges of the corresponding specialties. 156 figures,

2 tables, 102 biblio. refs.

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- 42 -

UDC: 8.74

LIPAYEV, V. V., KOLIN, K. K., SHEREBROVSKIY, L. A.

"Software for Digital Control Computers"

Matematicheskove obespecheniye upravlyayushchikh TsVM (cf. English above), Moscow, "Sov. radio", 1972, 528 pp, ill. 2 r. 10 k. (from RZh-Kibernetika, No 6, Jun 72, Abstract No 6V525 K)

Translation: The paper deals with the basic problems of developing general software for digital computers used in systems of automated control of objects in real time. Consideration is given to software facilities of technological processes for planning algorithms and programs for digital control computers (programming, debugging, obtaining documentation), as well as to software for organizing the computational process in the operation of digital computers in a control system. Considerable attention is given to the goals and structure of synthesis of software systems for digital control computers, and also to methods and criteria for evaluating their effectiveness. Consideration is given to the standard structure of an operational system, operating conditions, and algorithms of basic programs of organization of the computational process. Methods of queuing theory are

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LIPAYEV, V. V. et al., Matematicheskoye obespecheniye upravlyayushchikh TaVM, Moscow, "Sov. radio", 1972

used to study the various disciplines of monitoring computations in the case of unlimited waiting of customers in a queue and with loss of customers (messages) in a limited buffer memory of a digital computer. Problems and methods of automating the process of programming for digital control computers, programming languages, and also algorithms of translation and monitoring of mutually related large-volume programs are considered. A standard structure is presented for the system of automating programming and output of technical documentation for algorithms and programs. An analysis is made of the basic problems of automating debugging of algorithms and programs for digital control computers, the structure and circuitry of an automated debugging system.

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50 -

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

USSR UDC: 681.3.06:51

LIPAYEV, V. V.

"Flow Control of Algorithms in Digital Control Computers With a Limited Buffer Memory"

V sb. Nauch. i prakt. probl. bol'sbikh sistem. Sekts. Bol'shiye sistemy. Teoriya, metodol., modelir. (Scientific and Practical Problems of Large Systems—collection of works. Large Systems Section. Theory, Methodology, Modeling), Moscow, "Nauka", 1971, pp 168-185 (from RZh-Kibernetika, No 12, Dec 71, Abstract No 12V952)

Translation: The paper deals with modifications of algorithms for organizing interaction between programs in digital control computers operating in real time in complex systems. Expressions are given which make it possible to evaluate the effectiveness of loss of messages as a consequence of overflow of the buffer memory in certain disciplines of its priority and non-priority use. Recommendations are given on evaluating the use of priorities as a function of the characteristics of flow and queuing of the reports of different kinds of subscribers in the case of a limited buffer memory. Author's abstract.

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UDC 681.3.06:51

LIPAYEV, V. V.

*Comparative Characteristics of Types of Supervisory Program Operation Over Algorithms in Digital Control Computers with Limited Buffer Memory"

Tsifr. Vychisl. Tekhnika i Programmir. [Digital Computer Equipment and Programming -- Collection of Works], No 6, Moscow, Sovetskeye Radio Press, 1971, pp 97-106, (Translated from Referativnyy Zhurnal, Kibernetika, No 6, 1971, Abstract No 6 V616 by the author).

Translation: The probability is studied of losing requests for two priority and one non-priority disciplines of supervision of computations in digital control computers depending on the volume of buffer memory, on the general load of the system, on the relationships of loads of requests of the two types and on the relationships of processing times. It is demonstrated that priority servicing disciplines should be used with relationships of request servicing times less than the ratio of the volume of memory to the mean length of a message. The basic characteristics of non-priority and priority disciplines are presented for the range of change of parameters most typical for digital control computers operating with random flows of requests in real time.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

UDC: 681.3

USSR

LIPAYEV, V. V., BOCHAROV, P. F.

"Probability of Message Loss in the Buffer Memory of Digital Control Computers in the Case of Poisson Input Flow"

V sb. Tsifr. vychisl. tekhnika i programmir. (Digital Computer Technology and Programming-collection of works), vyp. 6, Moscow, "Gov. radio", and Programming-collection of works), vyp. 6, Moscow, "Gov. radio", pp 106-111 (from RZh-Kibernetika, No 7, Jul 71, Abstract No 7V695)

Translation: A digital control computer with limited buffer memory for storing messages entering at random moments of time is treated as a single-channel queueing system. A recurrent algorithm for determining the probability of message loss in the case of memory overflow is proposed for cases of constant message processing time and random message flow distributed by Erlangian law. A simple expression which closely supproximates the exact values of the probability of message loss is approximates the exact values of the probability of message loss is given for engineering calculations. The results can be used to determine the buffer memory of time, assigning a message loss probability under fairly typical conditions of message processing time. Authors' abstract.

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Heat Treatment

USSR

UDC 669.018.24:621.769.3:620.183

KIDIN, I. N., LIPCHIN, T. N., and MARSHALKIN, A. N., Moscow Institute of Steel and Alloys

"Annealing of ShKhl5 Steel by the Method of Cyclic Electrothermal Treatment"

Moscow, IVUZ Chernaya Mctallurgiya, No 4, 1970, pp 151-154

Translation: Before mechanical treatment and hardening, ball-bearing steels are subjected to prolonged annealing into divorced pearlite. A cyclic electrothermal treatment method of annealing is presented which reduces treatment time and enhances the possibilities of automation. It involves multiple quick heating into the austenitic region with intermediate decomposition in the pearlite region. After five cycles a structure of grained carbide with desired hardness is obtained in ShKhl5 steel. The dependence of the time of the incubation period and the time of conclusion of transformation on the temperature of austenization and isothermal holding at various rates of heating (deg/sec) is shown.

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Mechanical Properties

UDC: 621.746.58

USSR

LIPCHIN, T. N., NIKULIN, L. V., LOMONOSOV, Yu. M., Perm' Polytechnic Insti-

"Hardening of Alloys in Pressure Die Casting"

Moscow, Izvestiya VUZov: Chernaya Metallurgiya, No 11, 1972, pp 161-163

Abstract: The authors investigate the hardening mechanism responsible for the high mechanical properties which are attained without heat treatment when the pressure die casting method is used for making parts. M15 magnesium alloy specimens cast in a sand mold, a chill mold and by pressure die casting were studied for mechanical properties, density, grain size, microstructure, disstudied for mechanical properties which can have an appreciable effect on location density — characteristics which can have an appreciable effect on the strength properties of alloys. The strength properties of specimens made by pressure die casting exceeded those of chill-mold specimens by a factor of 1.4, with a corresponding figure of 2 for die-cast specimens over sand-mold specimens. The mechanism responsible for hardening of alloys during pressure die casting involves high cooling rates and application of pressure during the crystallization process. These conditions of solidification result in a sharp reduction in grain size (by a factor of 10 as compared with chill-mold sharp reduction in grain size (by a factor of 10 as compared with chill-mold

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LIPCHIN, T. N. et al., Izvestiya VUZov: Chernaya Metallurgiya, No 11, 1972, pp 161-163

casting, and by a factor of 20 as compared with send-mold casting). These conditions also increase the dislocation density by nearly an order of magnitude as compared with sand-mold casting. All three casting methods gave the same density. The nonequilibrium conditions obtaining during pressure die casting result in slight supersaturation of the solid solution, which makes heat-treat hardening ineffective.

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USSR UDC 576.31

GOTLIB, V. Ya., PELEVINA, I. I., AFANAS YEV, G. G., and LIPCHTMA, L. P., Institute of Chemical Physics, Academy of Sciences USSR, Moscow

"Alteration of the Lethal Irradiation Effect by Means of Chamical Compounds Under Conditions of Cell-Culturing Outside an Organism"

Moscow, Doklady Akademii Nauk SSSR, Vol 192, No 6, Jun 70, pp 1,367-1,370

Abstract: The possibility of modifying cellular radiosensitivity in tissue culture by means of an inhibitor of radical reactions -- propyl gallate -- was investigated. II. cells were obtained from NKL, mice, and seven-day monodispurse cell cultures were used. Irradiation was conducted 18 hrs after inoculation of madia. PG was added 18 hrs and 15 min prior to irradiation. After 10 days of culturing, cells were stained with toluidine blue and counted. It was determined that identical doses of GP had different effects on the cells, depending on the time of contact prior to irradiation. Contact of 18 hrs resulted in increased radiosemsitivity of the experimental cell population and a higher kill ratio, whereas 15 min of exposure resulted in radio-protective action. It was assumed that the metabolic products of PG were important in the sensitization effect. During short exposure, a reaction took place between PG and the radicals formed during irradiation, resulting in their deactivation.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

Public Health, Hygiene and Sanitation

USSR

unc \$14.824

LIPEN', A. V., Candidate of Medical Sciences

"Special Aspects of Medical Care in Areas Under Chemical Attack"

Minsk, Zdravookhraneniye Belorussii, No 8, 1971, pp 60-62

Abstract: Chemical agents (mustard, sarin, and V-agents), manufactured in some countries, may be used in another war, and therefore every district in the Soviet Union should have a medical corps and a citizen brigade well trained in therapeutic and prophylactic measures against chemical warfare. Since the above-mentioned gases act quickly in small doses and have a cumulative effect, speed is as important as accuracy. Procedures which may be used include: stocking antidote drugs and other medical supplies and detoxification equipment and protective suits, setting up special units in hospitals for gas victims, organizing rapid transportation of victims and evacuation of other persons, and training the local population in self-defense, training the citizen brigade in detoxification methods, and the medical corps in the medical treatment to be administered.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

UNCLASSIFIED PROCESSING DATE--18SEP70 020 TITLE--NEUTRON DIFFRACTION STUDY OF AN ALUMINUM AND LITHIUM ALLOY -U-

AUTHOR-(04)-NOZIK, YU.Z., LIPIN, YU.V., MAKSIMYUK, P.A., MIKHALKO, V.D.

COUNTRY OF INFO--USSR

SOURCE-LATV. PSR ZINAT. AKAD. VESTIS, FIZ. ZINAT. SER. 1970, (1), 88-90

DATE PUBLISHED-----70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--LITHIUM ALLOY, ALUMINUM ALLOY, MODEL, CRYSTAL STRUCTURE ANALYSIS, NEUTRON DIFFRACTION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/0609

STEP NO--UR/03/1/70/000/001/0088/0090

CIRC ACCESSION NO--APO105592

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

PROCESSING DATE--18SEP70 UNCLASSIFIED 2/2 CIRC ACCESSION NO--AP0105592 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. AN AL-LI ALLOY CONTG. 4 NT. PERCENT LI TAL SUBO TIMES 84 LI SUB O TIMES 16) WAS INVESTIGATED BY NEUTRON DIFFRACTION AND SHOWED. BESIDES THE BASIC LINES CORRESPONDING TO THE PURE AL STRUCTURE, 2 SUPERSTRUCTURE LINES, (100) AND (110), CORRESPONDING TO THE LI ATOMS. THE INTERPRETATION OF THE (100) AND (110) PEAKS LEADS TO 2 MODELS OF LI AT. ARRANGEMENT IN THE AL STRUCTURE: AN OCTAHEDRAL MODEL WITH 111 OVER 222 COORDIATES AND A TETRAHEDRAL MODEL WITH 111 OVER 444 COORDINATES. THE LI ATOMS CCCUPY THE OCTAHEDRAL POSITIONS IN THE FCC. LATTICE OF AL. THE INSUFFICIENT SHARPNESS OF THE 1100) AND (110) PEAK INTENSITIES, DUE TO THE SMALL AMT. OF LI IN THE ALLOY, DOES NOT ALLOW THE AMT. OF LI IN THE OCTAHEDRAL POSITION TO BE CALCO., AND THUS, NO INFORMATION ON THE SUBSTITUTION OF LI ATOMS IN THE AL STRUCTURE COULD BE OBTAINED. TINCLASSIFIED

UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--NEUTRON DIFFRACTION STUDY OF CA SUB3 FE SUB3.5 V SUB1.5 O SUB12
FERRITE GARNET -UAUTHOR-(03)-DUKHOVSKAYA, E.L., LIRIN, YU.V., MOZIK, YU.Z.

COUNTRY OF INFO--USSR

SOURCE-LATV. PSR ZINAT. AKAD. VESTIS, FIZ. TEH. ZINAT. SER. 1970, (2), 124-6
DATE PUBLISHED----70

SUBJECT AREAS--EARTH SCIENCES AND OCEANOGRAPHY

TOPIC TAGS--NEUTRON DIFFRACTION, GARNET, FERRITE, VANADIUM, ION DISTRIBUTION, MAGNETIZATION, CRYSTAL LATTICE STRUCTURE, TEMPERATURE DEPENDENCE

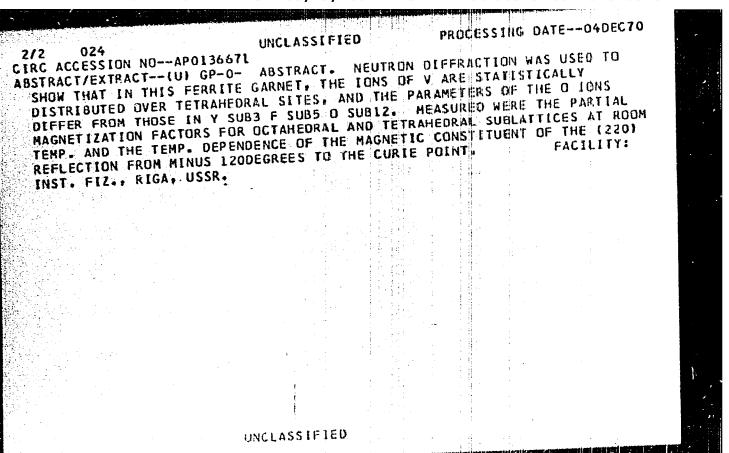
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/1265

STEP NO--UR/0371/70/000/002/0124/0126

CIRC ACCESSION NO--APO136671

UNCLASSIFIED



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UR 0482

Soviet Inventions Illustrated Section III Mechanical and General, Derwent, /-70

output control and ensures complete burning of fuel with excess air nearing stoichiometric. The burner is mounted inside a hot air box I and consists of a fuel nozzle 2 and an air feed with outer 3 and inner 4 concentric cones. The outer cone can move in guides 5. Fart of air flows smoothly through the space between the cones and other air goes through the twisting blades 6 fitted to the inner cone and is mixed with the fuel. The blades blanking plate 7 is moved together with on outer core by a

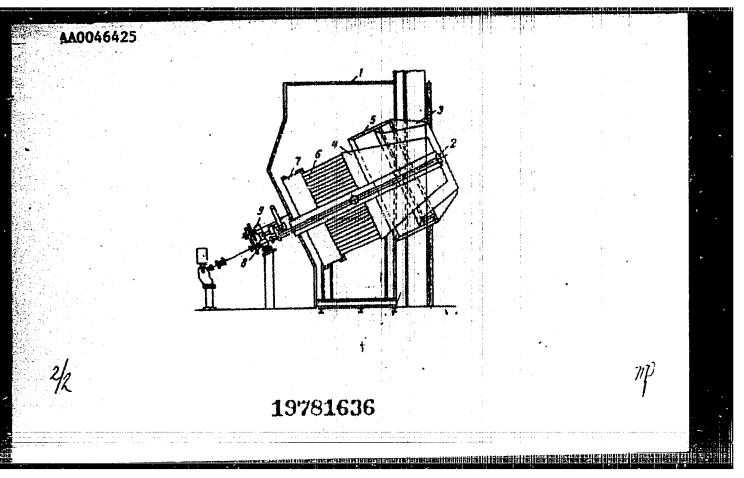
transmission 8 and 9 which is operated by the boiler controls.

7.4.64 as 892222/24-6.F.A.LIPINSEX (14.8.69) Bul 13/1.4.69. Class 24b. The Cl. P 23d.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"



UDC 546.791.6 21 131-386

FOMIN, V. V., LIPIS, L. V., AVERBAKH, L. I., MAYOROVA, We. P., and LEMAN, G. A.

"Uranyl Chloride Solvation With Tributylphosphate"

Moscow, Zhurnal Neorganicheskoy Khimii, Vol 16, No 3, Mar 71, pp 772-775

Abstract: A study of the system UO₂Cl₂-tributylphosphate (TBP) was carried out, concentrating on the effect of the solvent. The system was studied by the cryoscopical method, the distribution method, and spectroscopically. Extraction of UO₂Cl₂ with the mixture of TBP and CCl₄ + dichloroethane or heptane gave a pure compound UO₂Cl₂·2TBP, supporting the contention that disolvates form under conditions studied. The spectrum of UO₂Cl₂·2TBP depended strongly on the solvent used in spectral analysis, but there were no indications that solvates other than the disolvate were formed. Cryoscopical determinations showed that only the disolvates exist in the system UO₂Cl₂·-2TBP-TBP.

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USSR

UDC 577.1:615.7/9

LIPKAN, G. N., and PETRENKO, V. S.

"Choice of Solvent in Primary Toxicological Evaluation of Chemical Substances"

Fiziol. aktivn. veshchestva. Resp. mezhved. sb. (Physiologically Active Substances. Republic Interdepartmental Collection), 1972, No 4, pp 125-129 (from RZh-Biologicheskaya Khimiya, No 4, Feb 73, Abstract No 4 F1912)

Abstract: The toxicity of various organic solvents - acetone, methyl and ethyl alcohols, ethylene and propylene glycols - was studied in mice injected with these substances intraperitoncally and subculaneously. The calculated LD50 are the basis of recommended amounts of the solvents that do not have toxic action and that can be used in primary toxicological studies on chemical compounds.

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-63

unc 517.1:615.7/9

MARCHUK, R. YA., LIPKAN, G. N., ZAIKA, A. P., KONDRATYUK, V. I. and IVANOVA, ZH. N.

"Detoxification and Anticholinesterase Action of Two Representatives of Acid Fluorides of Alkyl Esters of Alkylthiophosphonic Acid"

Fiziol. aktivn. veshchestva. Resp. mezhved. sb. (Physiologically Active Substances, Republic Interdepartmental Collection), 1971, vyp 3, pp 75-79 (from RZh-Biologicheskaya Khimiya, No 17, Sep 71, Abstract No 17F2100)

Translation: In experiments on rabbits it is shown that there is no direct relationship between toxicity, anticholinesterase activity and detoxification in the tissues for isopropyl and ethyl athers of methylfunorothiophosphonic acid.

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unc 577.1:615.7/9

LIPKAN, G. N.

"Effect of Unithiole on Enzymatic Activity of Nyosin and Myosin-Like Proteins and Their Sulfhydryl Groups After Exposure to Metals Such As Thiol Reagents"

Farmakol. i toksikologiya. Resp. mezhved. sb. (Fharmacology and Toxicology. Republic Interdepartmental Collection of Works), 1970, No 5, pp 192-197 (from RZh-Biologicheskaya Khimiya, No 19, 10 Oct 70, Abstract No 19 F1822 by A. Ignat'yev)

Translation: The results of experiments designed to study the effect of unithicle (an antidote used in ersonic and mercury poisonings) on the enzymatic properties of myosin-like proteins in the liver following administration of Cd and Hg suggest that the cholinesterase of these proteins, like myosin cholinesterase, is an enzyme of non-thicl nature. Further research is needed to elucidate the role of SH-groups in the manifestation of cholinesterase activity of these proteins.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

UDC 621.314.572

AGIBALOV, V. I., DOLGOV, A. M., LIPKIN, A. A.

"A Buffer Memory Device"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 3, Jan 71, Author's Certificate No 291194, Division G, filed 12 May 69, published 6 Jan 71, p 118

Translation: This Author's Certificate introduces a buffer memory device which contains a binary counter and a storage cell. As a distinguishing feature of the patent, the device is simplified by connecting the counter output to an input of the storage cell, the other input of the cell being connected to an auxiliary pulse source of permissible frequency. The output of the storage cell is connected to the output of the device and to a feedback circuit. The output of the device and the feedback circuit are connected to the inputs of all digital places of the counter.

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UNCLASSIFIED PROCESSING DATE--13NDV70
TITLE--KINETICS OF THE REACTION OF M BUTYL N PRIME, N PRIME,
DIBUTYLHTIQUREA WITH OZONE -UAUTHOR-(04)-LIPKIN, A.M., RAZUMOVSKIY, S.D., GRIMBERG, A.YE., GURVICH,
YA.A.
COUNTRY OF INFO--USSR

SOURCE--DOKL. AKAD. NAUK SSSR 1970, 192(1), 127-30

DATE PUBLISHED---- 70

SUBJECT AREAS--CHEMISTRY

FORIC TAGS--CHEMICAL REACTION KINETICS, OZONE, CONDENSATION REACTION, THIOUREA

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3004/1878

STEP NO--UR/0020/70/192/001/0127/0130

CIRC ACCESSION NO--AT0132140

UNCLASSIFIED

2/2 014 UNCLASSIFIED PROCESSING DATE--13NOV70 CIRC ACCESSION NO--AT0132140 ABSTRACT/EXTRACT-- (U) GP-0- ABSTRACT. KINETIC DATA WERE PRESENTED FOR THE REACTION OF O SUB3 WITH TRIBUTYLTHIOUREA (I). THIS IBROWN DIL), N PRIMEZO SUBD 1.5147, D PRIMEZO 0.965, WAS PREPD. BY CONDENSATION OF BUNH SUB2 AND BU SUB2 IN WITH CS SUB2 IN H SUB2 O IN THE COLD, FOLLOWED BY ELIMINATION OF H SUB2 S BY HEATING: BY HEATING NA BUTYLOITHIOCARBAMATE WITH BU SUB2 NH. HCL; OR BY REACTION BY BUNCO WITH BU SUB2 NH. THE TITLE REACTION HAS FOLLOWED SPECTROSCOPICALLY. THE RESULTS, SHOWN GRAPHICALLY, SUGGEST THAT THE PROTECTIVE ACTION OF I AS AN ANTIOXIDANT APPEAR STRONGER IN THE EARLY STAGES OF THE REACTION, DURING WHICH A VOLATILE PRODUCT IS FORMED, ALONG WITH TRIBUTYLUREA. REACTION SEQUENCE IS: I PLUS O SUB3 YIELDS BUNHCONUU SUBZ PLUS SO SUBZ; FOLLOWED BY REACTION OF THIS WITH O TO FORK BUNCO AND OTHER (UNIDENTIFIED) PRODUCTS. THE LST STEP HAS A HIGH REACTION RATE, WHICH FACILITY: INST. KHIM. FIZ., COVED NOT BE MEASURED DIRECTLY. MOSCOW, USSR. UNCLASSIFIED

UNCLASSIFIED

PROCESSING DATE--LISEP70

FILE--SYNTHESIS BASED ON 2, METHYL, 4, QUINOLINECARBOXYLIC ACID -U
AUTHOR--LIPKIN, A, YE., BESPALOVA, ZH.P.

COUNTRY OF INFO--USSR

SOURCE--KHIM. FARM. ZH. 1970, 4(1), 24-6

DATE PUBLISHED-----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--CHEMICAL SYNTHESIS, QUINDLINE, AROMATIC CARBOXYLIC ACID, CANCER DRUG, ESCHERICHIA COLI, SHIGELLA, AROMATIC NITRO COMPOUND

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED
PROXY REEL/FRAME--1984/1708

STEP NO--U2/0450/70/004/001/0024/3026

CIRC ACCESSION NO--APO100305
UNCLASSIFIED

PROCESSING DATE--11SEP70 UNCLASSIFIED 2/2 012 CIRC ACCESSION NO--APO100305 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. A SERIES OF POTENTIAL ANTICARCINOGENS WAS PREPD. BY TREATING 0.01 MOLE 2. METHYL 4. QUINOLINECARBOXYLIC ACTO (M. 243-5DEGREES) WITH 0.01 MOLE ALDEHYDE IN 10 ML AC SUBZ O. AND HEATING THE MEXT. 30 MIN AT 180-900EGREES. THUS HERE PREPD. I IR AND M.P. GIVEN): PH (IA). 289-90DEGREES& O-NITROPHENYL (III). 293-40EGREES; M-NITROPHENYL (IIII), 316-17DEGREES; P-NITROPHENYL (IV), 324-5DEGREES: 2-FURYL, 196-8DEGREES, 5, NITRO, 2, FURYL, 297-BDEGREEES; 2-THIENYL, 292-3DEGREES; 5.NITRO, 2, THIENYL, 296DEGREES. WHEN TESTED AGAINST INTESTINAL MICROBES, II AND TIL HERE (NACTIVE AND IV DNLY SLIGHTLY ACTIVE. IA WAS ACTIVE AGAINST CANDIDA ALBICANS. ELSCHERICHIAN COLI AND SHITGELLAT SONNEL. UNCLASSIFIED

USSR

UDC 616.935-078

LIPKIN, M. Ye., Candidate of Medical Sciences, L'vov

"Specific Laboratory Methods for Dysentery Diagnosis"

Moscow, Sovetskaya Meditsina, Vol 33, No 7, Jul 70, pp 52-57

Abstract: Various tests for use in the diagnosis of dysentery are listed, their relative significance is discussed, and the sequence in which they are to be performed is outlined. It is noted, however, that there is no specific, absolutely reliable test for dysentery. Among the tests described are: fermentation of sugars by the bacteria, formation of indoles, acid-base reactions, selection of media for bacterial cultures, mobility of cultures and their growth patterns, the use of specific and group antigens, presence of K- and L- antigens, cross agglutination, passive hemagglutination, increase in phage titer, and the immnofluorescence method.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

UDC 539.3:534.1

LIPKIN, V. I.

"Experimental Studies of Natural Frequencies and Critical Loads for Rectangular Plates With Rectangular Openings Under Hydrostatic Stress"

V sb. Issled. po stroit. konstruktsiyam (Studies in Structural Designs -- Collection of works), Tomsk, Tomsk University, 1972, pp 149-156 (from RZh-Mekhanika, No 3, Mar 73, Abstract No 3V239)

Translation: The results of an experimental study of the natural frequencies and critical loads for rectangular places with a rectangular opening constrained over the entire contour are presented. Particular attention was given in the experiment to the central application of the load. The results are compared with theoretical results obtained previously by the author. 7 ref. N. A. Kulakov.

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

UDC 539.3

LIPKIN, V. I.

"Calculation of Rectangular Plates With Rigidity Varying in Stages for Strength, Stability, and Vibrations"

V sb. Prostranstv. konstruktsii v Krasnovarsk. kraye (Three-Dimensional Structures in the Krasnovarsk Region -- Collection of Works), Krasnovarsk, 1972, pp 256-257 (from RZh-Mekhanika, No 3, Mar 73, Abstract No 3V188)

Translation: The use of impulse functions are proposed in problems of calculating plates with rigidity varying in stages that formally lead to the problem of plastics with continuously varying rigidity to which variational methods in the ordinary form are applicable. As compared with other methods, the Ritz method is more suitable for computer use. It is pointed out that programs are compiled and problems of strength under bending, of stability and vibrations of rectangular plates with openings were solved. A fundamental system of beam functions is taken as the system of approximating functions. An experimental test of a series of plates supported the applicability of the proposed technique. Yu. A. Gruzdev.

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PROCESSING DATE-- 13NOV70

TITLE--TENTH EUROPEAN SYMPOSIUM ON THE CHEMISTRY OF THE PEPTIDES -U-

AUTHOR-(02)-LIPKIN, V.M., YEVSTRATOV, A.V.

COUNTRY OF INFO--USSR

SOURCE--MOSCOW, VESTNIK AKADEMII NAUK SSSR, RUSSIAN, VOL 40, NO 1, JANUARY

DATE PUBLISHED ---- 70

SUBJECT AREAS--BEHAVIORAL AND SOCIAL SCIENCES, BIOLOGICAL AND MEDICAL

TOPIC TAGS--PEPTIDE, AMINU ACID, APPLIED CHEMISTRY CONFERENCE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/0976

STEP NO--UR/0030/70/040/001/0087/0088

CIRC ACCESSION NO--APO130025

UNCLASSIFIED.

212 CIRC ACCESSION NO--AP0130025 UNCLASSIFIED ABSTRACT/EXTRACT-- (U) GP-0- ABSTRACT. THE TENTH EUROPEAN SYMPOSIUM ON PROCESSING DATE-- 13NOV70 THE CHEMISTRY OF THE PEPTIDES WAS HELD ON 7-18 SEPTEMBER 1969 IN ABANO TERMA, ITALY. ABOUT 120 SCIENTISTS FROM 18 COUNTRIES PARTICIPATED IN ITS WORK. ACCORDING TO THE ESTABLISHED TRADITION THE FIRST SECTION OF THE PROGRAM WAS DEVOTED TO PROBLEMS OF PROTECTIVE GROUPS AND THE DORMATION OF THE PEPTIDE BOND. ALTHOUGH IN THAT AREA NOTHING NEW IN PRINCIPLE HAD APPEARED SINCE THE PRECEDING SYMPOSIUM, A NUMBER OF REPORTS HERE OF DEFINITE INTEREST. THERE WERE REPORTS ON THE USE FOR THE PROTECTION OF THE AMIND GROUPS OF AMIND ACIDS AND PEPTIDES OF A NITROVERATRYLOXY GROUP, WHICH BE SELECTIVELY BE REMOVED IN THE PRESENCE OF BENZYLOXYCARBONYL AND TERT BYTYLOXYCARBONYL PAGTECTIVE GROUPS DURING IRRADIATION OF THE PEPTIDE WITH LIGHT (M. FRIEDKEN, ISRAEL), AND ALSO ON A NEW THIO TERT BUTYL S PROTECTIVE GROUP FOR CYSTEINE (E. BUNSCH, WEST GERMANY) AND A METHOD OF OBTAINING M PHTHAL DYLAMINO ACTOS, BASED ON THE INTERACTION OF AMINO ACID ESTERS WITH O METHYUXYCARBUNYLBENZOYLCHLORIDE UNCLASSIFIED

LIPKIN, V. I.

UDC 539.3

"On the Problem of the Experimental Study of Plates With an Opening for Bending"

V sb. Issled. po stroit. konstruktsiyam (Studies on Structures -- Collection of Works), Tomsk, Tomsk University, 1972, pp 144-148 (from RZh-Mekhanika, No 3, Mar 73, Abstract No 3V187)

Translation: Deformations and bends of a rectangular plate hinge-fastened along the outer contour with a rectangular opening and loaded by a uniform pressure were determined experimentally. The results were compared with vicinity of the opening is pointed out. N. A. Kulakov.

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SHTAN'KO, V. M., LIPKIN, Ya. N., NOVIKOV, V. G., VOLKOV, Yu. M., STRIZHAK, G. K., RABINOVICH, O. Ya., ZIMOVETS, V. G., DANILOV, A. M., MATVEYEV, Yu. NOVIKOV, V. G., VOLKOV, Yu. M., STRIZHAK, M., MEDNIKOV, Yu. A.

"Electrolyte for Electrochemical Polishing of Products"

USSR Author's Certificate No 306186, Filed 28/10/69, Published 21/07/71, (Translated from Referativnyy Zhurnal, Khimiya, No 3, 1972, Abstract No 3 L283 P from the Resume).

Translation: An electrolyte for electrochemical polishing of products, for example of stainless steel, differing in that in order to improve the quality of polishing and intensify the process, a foam suppressor is introduced to the electrolyte with the following relationship of components (in wt. %): orthophosphoric acid 30-70, H₂SO₄ 10-40, H₂O 10-30 and above 100%. Surfactants based on peptide and polypeptide salts, 1-10 g/l, foum suppressor 0.001-1 g/1. Polymethylsiloxane liquid is used as the form suppressor.

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TITLE--A COMPARATIVE STUDY OF THE CELL TISSUE RESPOND TO THE EFFECT OF PROCESSING DATE-- 160CT70 AUTHOR-LIPKINA, G.S.

COUNTRY OF INFO--USSR

SOURCE-ANTIBIOTIKI, 1970, VOL 15, NR 5, PP 449-455

DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--TISSUE CULTURE, CYTOLOGY, TETRACYCLINE, KANAHYCIN, LEVOMYCETIN, OLEANDONYCIN/ (U) AMPICILLIN ANTIBIOTIC

CONTROL MARKING--NO RESTRICTIONS .

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1994/0145

STEP NO+-UR/0297/70/015/005/0449/0455

CIRC ACCESSION NO--APOL14541

UNCLASSIFIED

616 CIRC ACCESSION NO--APO114541 UNCLASSIFIED ABSTRACT/EXTRACT--(U) GP-0-PROCESSING DATE--160CT70 E. AMPICILLIN, KANAMYCIN, LINCOMYCIN, OLEANDORYCIN, LEVOMYCETIN ABSTRACT. OUT OF 6 ANTIBIOTICS STUDIED, 1. CHLORAMPHENICOLI AND TETRACYCLINE, THE LATTER TWO WERE MOST TOXIC FOR TISSUE CELL CULTURES. THE MAXIMUM DOSE OF TETRACYCLINE PRODUCING NO CHANGES IN THE CELL STATE LIN 24 HOURS AFTER THE ANTIBIDTIC ADDITION TO THE MEDIUM) WAS 62 MUG-ML AND THAT OF LEVOMYCETIN WAS 125 HUG-ML. TETRACYCLINE COMBINATIONS WITH LEVOMYCETIN PRODUCED MORE SIGNIFICANT CHANGES IN THE CELL STATE THAN EACH ANTIBIOTIC USED ALONE (IN DOSES USED IN COMBINATIONS). THE USE OF TETRACYCLINE IN COMBINATION WITH LINCOMYCIN OR OLEANDOMYCIN DID NOT RESULT IN AN INCREASE OF ITS TOXICITY. COMBINATION OF KANAMYCIN WITH AMPICILLIN EVEN IN A VERY HIGH SUMMATION DOSE OF 1000 MUG-ML (500 MUG-ML OF EVERY ANTIBIOTIC) HAD NO IRRITATING EFFECT ON THE CELLS (WITH RESPECT TO THE CRITERIA USED). FACILITY: CENTRAL POST GRADUATE MEDICAL INSTITUTE, MOSCOW. UNCLASSIFIED

1/2 012 TITLE--REGULARITIES IN THE STRENGTH DECREASE OF ZEDLITE PELLETS UNDER UNCLASSIFIED PROCESSING DATE--0200170 ACTION OF WATER AND BENZENE VAPORS -U+ AUTHOR-(05)-SLEPNEVA, A.T., LIPKIND, B.A., DUKAREVICH, M.V., KONTGROVICH,

COUNTRY OF INFO--USSR

SOURCE--KOLLOIDNYY ZHURNAL, 1970, VOL 32, NR 2, PP 251-254

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--ZEOLITE, WATER, BENZENE, ADSORPTION

CONTROL MAPKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PRUXY PEEL/FRAME--1992/1553

STEP NO--UR/0069/70/032/002/0251/0254

CIRC ACCESSION NO-APO112547

UNCLASSIFIED

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002201810015-1"

PROCESSING DATE--020CT70 UNCLASSIFIED 2/2 0.12 CIRC ACCESSION NO--APOLIZ547 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE EFFECT OF MOISTENING BY WATER AND BENZENE VAPORS ON THE STRENGTH OF THE SAMPLES OF KADLINITE CLAY AND ZEDLITES NAA AND NAX, CONTAINING ZOPERCENT CLAY AS BINDING AGENT, HAS BEEN STUDIED. MOISTENING OF CLAY AND ZEOLITE SAMPLES INVOLVES A STRENGTH DECREASE ASSUCIATED WITH THE LOWERING OF THE FREE SURFACE ENERGY DURING ADSORPTION. THE SORPTION OF WATER AND BENZENE MOLECULES BY INTERNAL CAVITIES OF ZEOLLTE CRYSTALS REDUCES THE STRENGTH DECREASE IF THE LIQUID CONTENT DOES NOT EXCEED 10-20PERCENT OF THE ADSORPTION CAPACITY OF ZEOLITES. UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE--THEORETICAL STUDY OF N,ACETYL, L, ALANINE METHYLAMIDE CONFORMATIONS

AUTHOR-(03)-LIPKIND, G.M., ARKHIPOVA, S.F., POPOV, YE.M.

COUNTRY OF INFO--USSR

SOURCE--ZH. STRUKT. KHIM. 1970, 11(1), 121-6 (RUSS)

DATE PUBLISHED----70

SUBJECT AREAS -- CHEMISTRY, BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--ALANINE, ANIDE, HYDROGEN BONDING, ENTROPY, DIPOLE MOMENT, SOLVENT ACTION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/1643

STEP NO--UR/0192/70/014/001/0121/0126

CIRC ACCESSION NO--APO125265

U.CLASSIFIED

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			UNCLASSIFIED				1	•

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METHYLAMIDE -U- AUTHOR- (03) LIPKIND, G.M., AR	KHIPOVA, S.F	. POPGV	, YE.H.	
ANUTON DE INFO-USSR				
SOURCE-IZV. AKAD. NAUK SSSR	SER. KHIM.	1970, 12	1), 315-22	
DATE PUBLISHED-70				
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SUBJECT AREAS-CHEMISTRY				
TOPIC TAGS-PHENYLALANINE, A	MIDE			

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/0750

STEP NO--UR/0062/70/000/002/0315/0322

CIRC ACCESSION NO--APO124420
UNCLASSIFIED

UNCLASSIFIED

PROCESSING DATE—300C170

2/2 006

CIRC ACCESSION NO--APO124420

ABSTRACT-EXTRACT—(U) GP-OABSTRACT-EXTRACT—(U) GP-ON;ACETYL-L,PHENYLALANINE METHYLAMIDE AND THE MOL- MAP PROJECTIONS MERE
N;ACETYL-L,PHENYLALANINE METHYLAMIDE AND THE MOLN;ACETYL-L,PHENYLALANINE METHYLAMIDE AND THE MOLN;ACETYL-L,PHENYLALANINE METHYLAMIDE AND THE MOLN;ACETYL-L,PHENYLAMINE METHYLAMINE ME

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SOME METHYLAMIDES OF N

AUTHOR-(03)-LIPKIND, G.M., ARKHIPOVA, S.F., POPOV, YE.M.

COUNTRY OF INFO--USSR

SOURCE--MOLEKULYARNAYA BIOLOGIYA, 1970, VOL 4, NR 3, PP 331-338

DATE PUBLISHED-----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES, CHEMISTRY

TOPIC TAGS--PEPTIDE, MOLECULAR STRUCTURE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0177

STEP NO--UR/0463/70/004/CD3/0331/0338

CIRC ACCESSION NO--AP0120877

UNCLASSIFIED